

Patent Claims

What is claimed:

1. An adjustable frame structure for carrying a circuit board, comprising:
a frame;
two parallel tracks formed on the opposite sides of the frame, respectively; and
a movable bar;
wherein the movable bar can move on the frame through the tracks to adjust the location of the movable bar on the frame according to the size of the circuit board.
2. The adjustable frame structure of Claim 1, further comprises a plurality of first fasteners formed on the frame.
3. The adjustable frame structure of Claim 1, further comprises a rolling pieced formed on the end of the movable bar.
4. The adjustable frame structure of Claim 1, further comprises a plurality of second fasteners formed on the movable bar.
5. The adjustable frame structure of Claim 2, wherein the first fasteners for fixing the circuit board are formed on the four sides of the frame.

6. The adjustable frame structure of Claim 4, wherein at least one second fastener for fixing the circuit board is mounted on the movable bar.

7. The adjustable frame structure of Claim 1, wherein a respective rolling piece is mounted on the two ends of the movable bar to roll in the parallel tracks.

8. The adjustable frame structure of Claim 7, wherein the rolling piece is a ball.

9. The adjustable frame structure of Claim 7, wherein the rolling piece is a roller.

10. The adjustable frame structure of Claim 6, wherein the at least one second fastener is rotated onto the circuit board and produces a downward pressure on the circuit board to fix the circuit board.

11. A two-side adjustable frame structure for carrying a circuit board, comprising:

a main frame, composed of a first side having a first track, a second side having a second track, a third side having a third track and a fourth side having a fourth track, wherein the first side is parallel to the third side and the second side is parallel to the fourth side;

a first movable bar, the two ends of which respectively slidingly cooperate with the first and third tracks; and

a second movable bar, the two ends of which respectively slidingly cooperate with the second and fourth tracks;
wherein a supporting area for accommodating the circuit board is formed by the first movable bar, the second movable bar and a part of the main frame, and the locations of the first movable bar and the second movable bar on the main frame are adjusted according to the size of the circuit board.

12. The two-side adjustable frame structure of Claim 11, further comprising an immovable supporting plate mounted at the inner edge of each of the sides of the main frame, and a plurality of movable supporting plates respectively mounted on the first movable bar and the second movable bar such that the circuit board is held by the immovable and movable supporting plates within the supporting area.

13. The two-side adjustable frame structure of Claim 12, wherein a plurality of rotatable fasteners are mounted on the movable supporting plates to fix the circuit board within the adjustable supporting area on the frame structure.

14. The two-side adjustable frame structure of Claim 11, wherein at least one first sliding piece is formed at a respective end of the first movable bar to slide in the first and third tracks of the main frame.

15. The two-side adjustable frame structure of Claim 11, wherein at least one second sliding piece is formed at a respective end of the second movable bar to slide in the second and fourth tracks of the main frame.

16. The two-side adjustable frame structure of Claim 14, wherein the at least one first sliding piece is a shaft roller.

17. The two-side adjustable frame structure of Claim 15, wherein the at least one second sliding piece is a shaft roller.

18. The two-side adjustable frame structure of Claim 11, wherein a stopper is mounted on one of the sides of the main frame.